

## M E M O R A N D U M

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**FROM:** Gary Johnson, Ph.D.

**DATE:** January 27, 2005

**PROJECT:** NY10132.000

**SUBJECT:** Walk through New Britain in area near CCSU building containing hearing room used by Connecticut Siting Council

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On October 13, 2004, near lunchtime, I sampled the ac magnetic field at 4-second intervals in New Britain, CT. The measurements were taken at approximately waist height with an EMDEX Lite recording magnetic field meter.

### **Sampling Locations**

I triggered the meter to begin taking measurements while driving west along Chestnut Street. After parking the car, I walked west on foot along the north side of Chestnut Street. The walking path through New Britain is shown in Figure 1. I proceeded west along Chestnut (photo in Figure 2), across Main Street, then north along the west side of Main Street to Bank Street, then east along the south side of Bank Street, back across Main Street (photo in Figure 3), then south along the east side of Main Street past the CCSU building (where the Connecticut Siting Council hearings on Docket 272 are held) (photo in Figure 4), and then into the building south of the CCSU building. I left this building through a side door into a side pedestrian walk-way and walked east through an alley into the parking garage east of the CCSU building, then south through the parking garage back to Chestnut Street, and then back east along Chestnut Street to the origin of the walk. I switched off the meter after driving out of the parking lot and heading east along Chestnut Street. The area of the walk is served by underground power lines.

### **Results**

The magnetic field values that were recorded on October 13 were downloaded from the meter and are displayed in Figure 5. The measured magnetic fields along the walk in New Britain ranged from 0 mG to 21 mG. The fields were in the range of 2 mG to 8 mG

along the sidewalk in front of the stores on the west side of Main Street. Magnetic field levels of 21 mG and 14 mG were measured while walking along Bank Street and crossing Main Street. The average magnetic field during the walk was computed to be 1.8 mG.

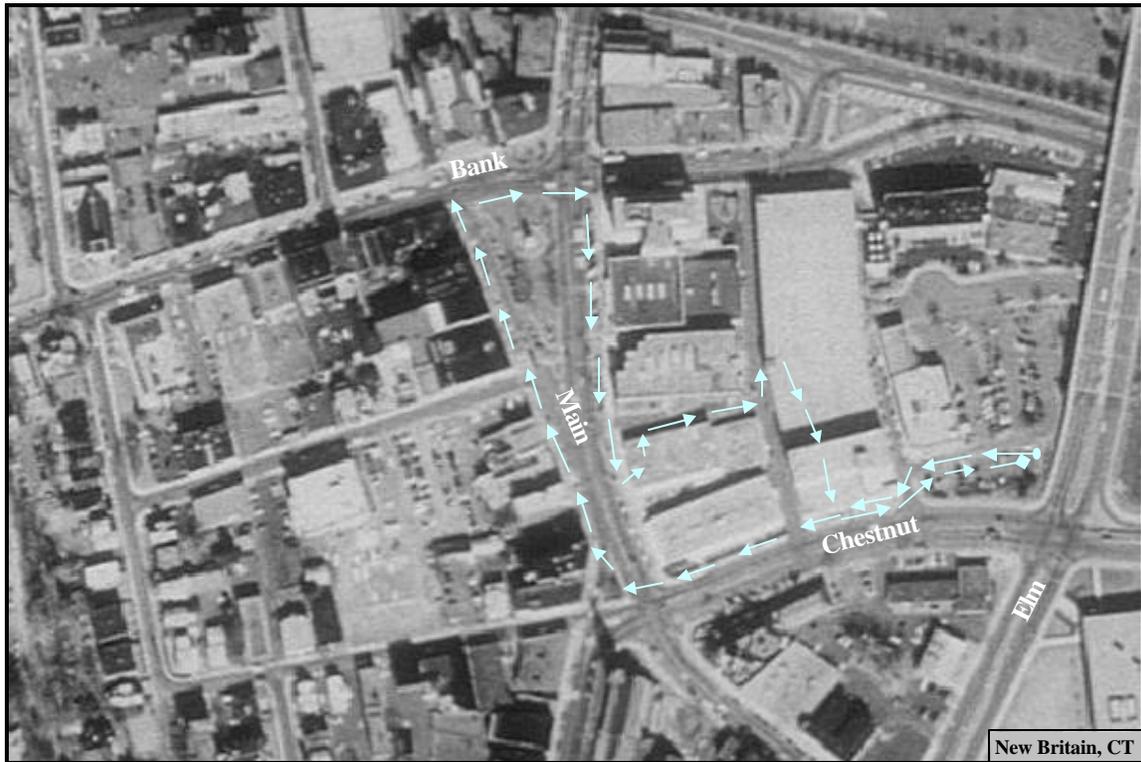


Figure 1. Aerial view of New Britain, CT. Walking path followed during magnetic field measurements is shown by arrows. The CCSU building is east of the street label “Main”.



Figure 2. Walking path along north side of Chestnut. Southeast edge of parking garage.



Figure 3. On the east side of Main Street in New Britain, looking northwest across Main Street toward Bank Street.



Figure 4. CCSU building along Main Street in New Britain. CCSU building houses meeting room used by Connecticut Siting Council.

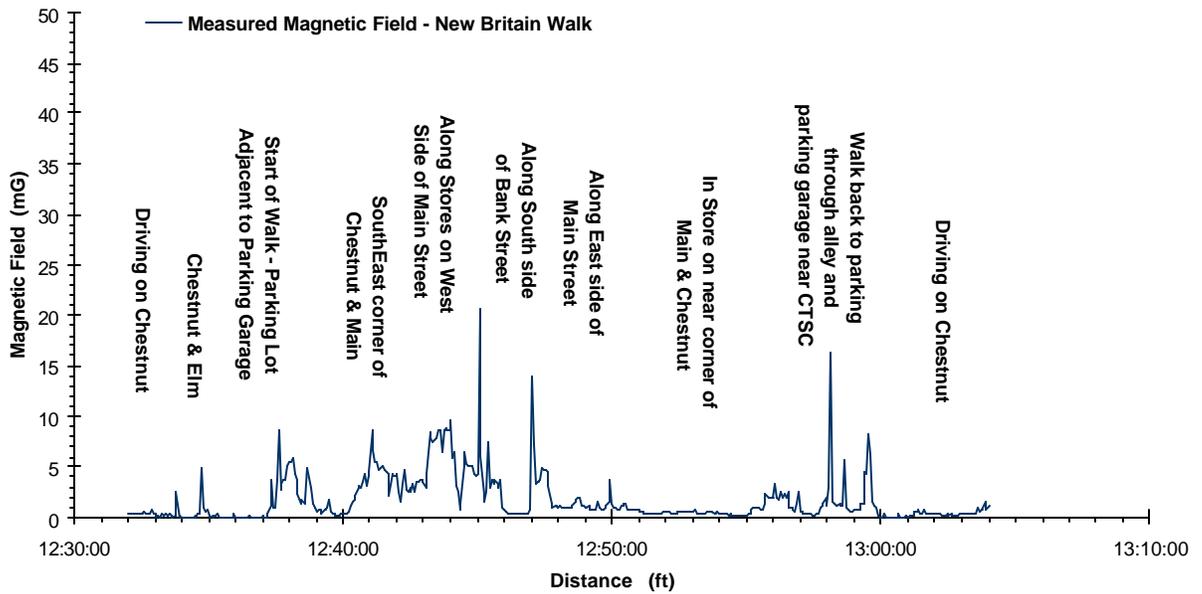


Figure 5. Plot of magnetic field measurements taken in New Britain.